

# Appendix A

## 1 of 5

### Software configuration in a telecommunication device

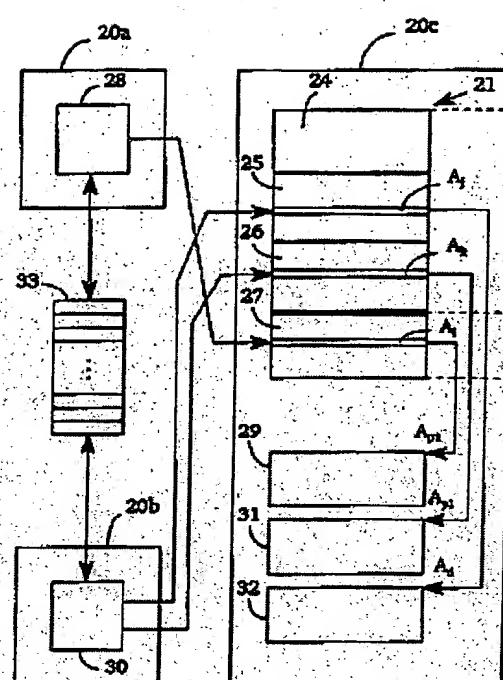
**Patent number:** DE19502728  
**Publication date:** 1996-08-01  
**Inventor:** BAUMBAUER LOTHAR DIPL PHYS (DE)  
**Applicant:** PHILIPS PATENTVERWALTUNG (DE)  
**Classification:**  
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 - european: G06F9/44G4C; H04Q3/545C3; G06F9/445L  
**Application number:** DE19951002728 19950128  
**Priority number(s):** DE19951002728 19950128

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 US577138  
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#### Abstract of DE19502728

The invention relates to a telecommunication device having software that is used for controlling function routines, which software is comprised of several separately compilable program units (20a, 20b, 20c). To reduce the time necessary for manufacturing the telecommunication device and the time necessary for implementing software changes, the program units (20a, 20b, 20c) each have a header (21) which contains addresses (Ap1, Ap2, Ad) used for addressing procedures (29, 31) and/or data (32) combined in the program units (20a, 20b, 20c). Furthermore, a catalogue (33) is provided which is available to all the loaded program units (20a, 20b, 20c), which catalogue contains references for addressing the headers (21) of the program units (20a, 20b, 20c). Within the framework of the manufacture of the telecommunication device, the predefined program units (20a, 20b, 20c) need not be linked when the software of the telecommunication device is implemented.



## Appendix A

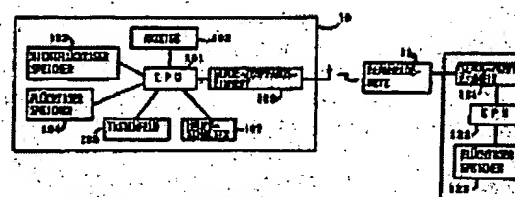
### 2 of 5

### Software updating method for microcomputer-supported mobile telephone

**Patent number:** DE19543843  
**Publication date:** 1997-05-28  
**Inventor:** CHEN VICTOR (TW)  
**Applicant:** ACER PERIPHERALS INC (TW)  
**Classification:**  
 - international: H04Q3/545; H04M1/00; H04Q7/20  
 - european: G06F9/445N; H04M1/725F1C; H04Q3/545C1; H04Q7/32A2  
**Application number:** DE19951043843 19951124  
**Priority number(s):** DE19951043843 19951124

#### Abstract of DE19543843

The method is applied to a mobile telephone (10) which is linked by a telecommunications network (11) to a software-updating computer system (12). The computer system includes a transceiver (121), a volatile memory (123) and a hard disc (124). The mobile telephone holds its software in a non-volatile flash memory (103) with a structure table containing its version number. The software is set into an updating mode and a link is established with the remote computer system, to which the structure table is transmitted. An updating package with new operating system and function modules and a modified structure table is then received by the mobile telephone, via its transceiver (106).



**System for the new programming of a control memory**

Application number: DE 19850133  
Publication Date: May 27, 1999  
Inventor:  
Applicant: Nissan Motor Co.

**Abstract of DE19850133**

System for the new programming of a control memory, in order to write data again in a control memory of a control unit, as for instance a vehicle tax unit, with an external mechanism, whereby an identification code in the control unit is stored and whereby a pre-determined compatibility information record on a recording medium is noted, on which the new data for the reprogramming it is stored.

After the connection of the control unit with the external mechanism, into which the recording medium is loaded, the reprogramming system compares the identification code of the control unit with the compatibility information record on the recording medium, over the compatibility between the data in the control memory and the data on the recording medium to examine and prevents the reprogramming with the recording medium, if the compatibility is not confirmed.

# Appendix A

## 4 of 5

### Software download device for a communication terminal.

**Patent number:** EP0459344  
**Publication date:** 1991-12-04  
**Inventor:** ISSENMANN EDOUARD (FR); BALLARD MICHEL (FR)  
**Applicant:** CIT ALCATEL (FR)  
**Classification:**  
 - international: H04Q7/04  
 - european: H04Q7/32A2  
**Application number:** EP19910108566 19910527  
**Priority number(s):** FR19900006710 19900530

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Cited documents

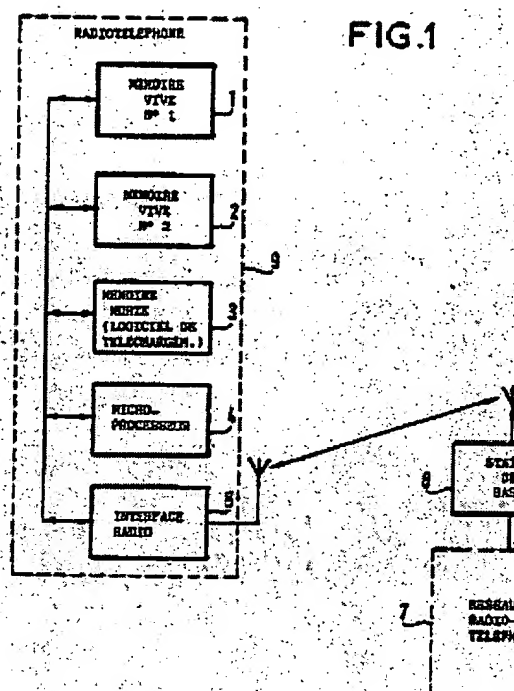
EP02976  
 EP03691  
 US47364  
 DE38150

#### Abstract of EP0459344

The invention relates to a device for downloading a telecommunication terminal, for example a radio telephone (9), so as to change its operating software, without the user of this radio telephone having to take it to a commercial agency of the operator of the radio telephone network. In an embodiment, each radio telephone includes:

- a plurality of random-access memories (1, 2) for storing various items of operating software;
- a read-only memory (3) storing an item of downloading software;
- a microprocessor (4) executing either the downloading software, or one of the operating programs;
- a conventional radio interface (5) used, on the one hand, as downloading interface, and on the other hand, for the conventional radio telephone links.

Application to all telecommunication terminals containing a microprocessor, in particular the terminals distributed in great numbers among the public.



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(FR).

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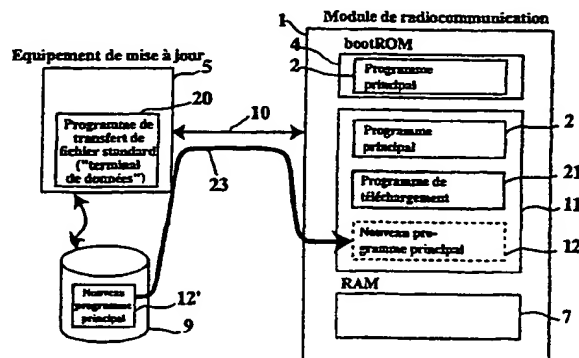
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LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), brevet eurasien

[Suite sur la page suivante]

(54) Title: METHOD FOR UPDATING A MAIN PROGRAMME EXECUTED BY A RADIO COMMUNICATION MODULE

(54) Titre: PROCEDE DE MISE A JOUR D'UN PROGRAMME PRINCIPAL EXECUTE PAR UN MODULE DE RADIOCOM-  
MUNICATION



- 1...RADIO COMMUNICATION MODULE
- 2...MAIN PROGRAMME
- 21...DOWNLOADING PROGRAMME
- 12...NEW MAIN PROGRAMME
- 5...UPDATING EQUIPMENT
- 20...STANDARD FILE TRANSFER PROGRAMME (DATA TERMINAL)
- 12'...NEW MAIN PROGRAMME

(57) Abstract: The invention concerns a method for updating a main programme (2) executed by a radio communication module (1), and/or data associated with said main programme, said radio communication module communicating with an updating equipment (5). The invention is characterised in that it comprises the following successive steps: launching the execution, by the radio communication module, of a downloading programme (21) capable of communicating, in accordance with a standard communication protocol, with a standard file transfer programme (20), of the data terminal type, executed by the updating equipment; sending through the standard file transfer programme (20) to the downloading programme (21), in accordance with the standard communication protocol, a new main programme (12) and/or new data; storing through the downloading programme (21), in a non-volatile memory (11) of the radio communication module (1), the new main module (12) and/or the new data.

[Suite sur la page suivante]

WO 01/35686 A1